

AMENDMENTS TO THE CLAIMS

Listing of Claims

1. (previously presented) An absorbent product comprising an absorbent substrate and a moisturizing and lubrication composition, said moisturizing and lubricating composition comprising from about 1% (by weight) to about 40% (by weight) of an emollient, from about 1% (by weight) to about 20% (by weight) of a humectant, from about 30% (by weight) to about 90% (by weight) an immobilizing agent, and from about 1% (by weight) to about 40% (by weight) of a compatibilizing agent wherein no more than about 50% (by weight) of the components are liquid at room temperature and no less than about 50% of the components are solid at room temperature, and wherein at least about 85% (by weight) of the components of the moisturizing and lubricating composition form a single phase at a temperature of from about 45°C to about 80°C, wherein the immobilizing agent is a high molecular weight polyethylene glycol having the formula:



wherein x is the degree of ethoxylation and is an average value of at least about 20 moles.

2. (original) The absorbent product as set forth in claim 1 wherein the emollient is selected from the group consisting of petroleum based emollients, fatty acids, fatty acid esters, vegetable oils, hydrogenated vegetable oils, alkyl ethoxylates, fatty alcohols, silicones, and combinations thereof.

3. (original) The absorbent product as set forth in claim 2 wherein the silicones are selected from the group consisting of dimethicone, dimethoconol, PEG dimethicone, alkyl silicones, phenyl silicones, silicone phospholipids, and combinations thereof.

4. (original) The absorbent product as set forth in claim 1 wherein the humectant is present in an amount of from about 5% (by weight) to about 15% (by weight).

5. (original) The absorbent product as set forth in claim 1 wherein the humectant is selected from the group consisting of N-Acetyl ethanolamine, urocanic acid, aloe vera gel, arginine PCA, chitosan PCA, copper PCA, corn glycerides, dimethyl imidazolidinone, fructose, glucamine, glucose, glucose glutamate, glucuronic acid, glutamic acid, glycereth-7, glycereth-12, glycereth-20, glycereth-26, glycerin, honey, hydrogenated honey, hydrogenated starch hydrolysates, hydrolyzed corn starch, lactamide MEA, lactic acid, lactose lysine PCA, mannitol, methyl gluceth-10, methyl gluceth-20, PCA, PEG-2 lactamide, PEG-10 propylene glycol, polyamino sugar condensate, potassium PCA, propylene glycol, propylene glycol citrate, polyamino acid, polysaccharide, saccharide hydrolysate, saccharide isomerate, sodium aspartate, sodium lactate, sodium PCA, sorbitol, TEA-lactate, TEA-PCA, Urea, Xylitol, and mixtures thereof.

6. (original) The absorbent product as set forth in claim 1 wherein the humectant is selected from the group consisting of polyols, glycerine, ethoxylated glycerine, polyethylene glycols, hydrogenated starch hydrolysates, propylene glycol, silicone glycol, pyrrolidone carboxylic acid, and mixtures thereof.

7. (original) The absorbent product as set forth in claim 1 wherein the humectant is glycerin.

8. (original) The absorbent product as set forth in claim 1 wherein the immobilizing agent is present in an amount of from about 40% (by weight) to about 70% (by weight).

9. (cancelled).

10. (previously presented) The absorbent product as set forth in claim 1 wherein the polyethylene glycol is selected from the group consisting of PEG 1000, PEG 3350, PEG 6000, PEG 8000, and PEG 10,000.

11. (cancelled).

12. (original) The absorbent product as set forth in claim 1 wherein the compatibilizing agent is selected from the group consisting of propylene glycol, butylene glycol, 1,3 butylene glycol, low molecular weight polyethylene glycols (molecular weights of less than about 720 and liquid at room temperature), methoxyisopropanol, dipropylene glycol propyl ether, dipropylene

glycol butyl ether, dipropylene glycol, methyl propanediol, and soluble/dispersible polypropylene glycols, and combinations thereof.

13. (original) The absorbent product as set forth in claim 1 wherein the moisturizing and lubricating composition further comprises a dispersing agent.

14. (original) The absorbent product as set forth in claim 13 wherein the dispersing agent is selected from the group consisting of polyether ethoxylated/propoxylated modified polydimethylsiloxanes which are fully or partially compatible with polydimethylsiloxanes, silicone polyethers having at least 30% siloxane, between 10% and 40% ethoxylation and between 0% and 40% propoxylation and combinations thereof.

15. (original) The absorbent product as set forth in claim 1 wherein the moisturizing and lubricating composition further comprises a skin barrier enhancing agent in an amount of from about 0.1% (by weight) to about 30% (by weight).

16. (original) The absorbent product as set forth in claim 15 wherein the skin barrier enhancing agent is selected from the group consisting of a fat and an oil.

17. (original) The absorbent product as set forth in claim 15 wherein the skin barrier enhancing agent is selected from the group consisting of apricot kernel oil, avocado oil, babassu

oil, borage seed oil, butter, C₁₂-C₁₈ acid triglyceride, camellia oil, canola oil, caprylic/capric/lauric triglyceride, caprylic/capric/linoleic triglyceride, caprylic/capric/stearic triglyceride, caprylic/capric triglyceride, carrot oil, cashew nut oil, castor oil, cherry pit oil, chia oil, cocoa butter, coconut oil, cod liver oil, corn germ oil, corn oil, cottonseed oil, C₁₀-C₁₈ triglycerides, egg oil, epoxidized soybean oil, evening primrose oil, glyceryl triacetyl hydroxystearate, glyceryl triacetyl ricinoleate, glycosphingolipids, grape seed oil, hazelnut oil, human placental lipids, hybrid safflower oil, hybrid sunflower seed oil, hydrogenated castor oil, hydrogenated castor oil laurate, hydrogenated coconut oil, hydrogenated cottonseed oil, hydrogenated C₁₂-C₁₈ triglycerides, hydrogenated fish oil, hydrogenated lard, hydrogenated menhaden oil, hydrogenated mink oil, hydrogenated orange roughy oil, hydrogenated palm kernel oil, hydrogenated palm oil, hydrogenated peanut oil, hydrogenated shark liver oil, hydrogenated soybean oil, hydrogenated tallow, hydrogenated vegetable oil, lard, lauric/palmitic/oleic triglyceride, lesquerella oil, linseed oil, macadamia nut oil, maleated soybean oil, meadowfoam seed oil, menhaden oil, mink oil, moringa oil, mortierella oil, neatsfoot oil, oleic/linoleic triglyceride, oleic/palmitic/lauric/myristic/linoleic triglyceride, oleostearine, olive husk oil, olive oil, omental lipids, orange roughy oil, palm kernel oil, palm oil, peach kernel oil, peanut oil, pengawar djambi oil, pentadesma butter, phospholipids, pistachio nut oil, placental lipids, rapeseed oil, rice bran oil, safflower oil, sesame oil, shark liver oil,

shea butter, soybean oil, sphingolipids, sunflower seed oil, sweet almond oil, tall oil, tallow, tribehenin, tricaprin, tricaprylin, triheptanoin, trihydroxymethoxystearin, trihydroxystearin, triisononanoïn, triisostearin, trilaurin, trilinolein, trilinolenin, trimyristin, trioctanoïn, triolein, tripalmitin, trisebacin, tristearin, triundecanoïn, vegetable oil, walnut oil, wheat bran lipids, wheat germ oil, zadoary oil, and mixtures thereof.

18. (original) The absorbent product as set forth in claim 15 wherein the moisturizing and lubricating composition further comprises an antioxidant in an amount of from about 0.05% to about 5%.

19. (original) The absorbent product as set forth in claim 18 wherein the antioxidant is selected from the group consisting of natural and synthetic tocopherol, butylated hydroxyanisole (BHA), butylated hydroxytoluene (BHT), carotenoids, filtered wheat germ oil, gamma oryzanol, sodium sulfite, grape seed extract, green tea extract, rosmarinic acid, ubiquinone, lipoic acid, N-acetyl-cysteine, avocado, sage, proanthocyanidins, and mixtures thereof.

20. (original) The absorbent product as set forth in claim 18 wherein the antioxidant is selected from the group consisting of natural and synthetic tocopherol, butylated hydroxytoluene, gamma oryzanol, and mixtures thereof.

21. (original) The absorbent product as set forth in claim 1 wherein the moisturizing and lubricating composition further comprises a sterol or sterol derivative in an amount of from about 0.1% (by weight) to about 10% (by weight).

22. (original) The absorbent product as set forth in claim 21 wherein the sterol or sterol derivative is selected from the group consisting of cholesterol sulfate, cholesterol, sitosterol, stigmasterol, ergosterol, C10-C30 cholesterol/lanosterol esters, cholecalciferol, cholesteryl hydroxystearate, cholesteryl isostearate, cholesteryl stearate, 7- dihydrocholesterol, dihydrocholesterol, dihydrocholesteryl octyldecanoate, dihydrolanosterol, dihydrolanosteryl octyldecanoate, ergocalciferol, tall oil sterol, soy sterol acetate, lanasterol, soy sterol, avocado sterols, cholesterol esters, sterol esters, and mixtures thereof.

23. (original) The absorbent product as set forth in claim 1 wherein the moisturizing and lubricating composition further comprises a ceramide.

24. (original) The absorbent product as set forth in claim 23 wherein the ceramide is glucosylceramide.

25. (previously presented) The absorbent product as set forth in claim 1 wherein the moisturizing and lubricating composition further comprises one or more components selected from the group consisting of emulsifiers, surfactants, water,

viscosity modifiers, pH modifiers, enzyme inhibitors/inactivators, suspending agents, pigments, dyes colorants, natural moisturizing factors, buffers, perfumes, antibacterial actives, antifungal actives, antiviral actives, pharmaceutical actives, film formers, deodorants, opacifiers, astringents, solvents, organic acids, preservatives, drugs, vitamins, aloe vera, and panthenol.

26. (original) The absorbent product as set forth in claim 1 wherein the moisturizing and lubricating composition has a melting point of from about 55°C to about 75°C.

27. (original) The absorbent product as set forth in claim 1 wherein the moisturizing and lubricating composition has a penetration hardness of from about 1 millimeter to about 20 millimeters.

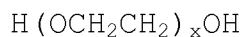
28. (original) The absorbent product as set forth in claim 1 wherein at least about 90% (by weight) of the components of the moisturizing and lubricating composition form a single phase at a temperature of from about 45°C to about 80°C.

29. (original) The absorbent product as set forth in claim 1 wherein at least about 94% (by weight) of the components of the moisturizing and lubricating composition form a single phase at a temperature of from about 45°C to about 80°C.

30. (original) The absorbent product as set forth in claim 1 wherein at least about 97% (by weight) of the components of the moisturizing and lubricating composition form a single phase at a temperature of from about 45°C to about 80°C.

31. (original) The absorbent product as set forth in claim 1 wherein the absorbent product is selected from the group consisting of diapers, feminine hygiene pads, pantliners, micro-liners, interlabial pads, thong pads, tampons, adult incontinence garments, training pants and disposable swimming pants.

32. (previously presented) An absorbent product comprising an absorbent substrate and a moisturizing and lubrication composition comprising from about 1% (by weight) to about 40% (by weight) of a silicone, from about 1% (by weight) to about 20% (by weight) of a humectant, from about 30% (by weight) to about 90% (by weight) an immobilizing agent, from about 1% (by weight) to about 40% (by weight) of a compatibilizing agent and a dispersing agent wherein no more than about 50% (by weight) of the components are liquid at room temperature and no less than about 50% of the components are solid at room temperature, and wherein at least about 85% (by weight) of the components of the moisturizing and lubricating composition form a single phase at a temperature of from about 45°C to about 80°C, and wherein the immobilizing agent is a high molecular weight polyethylene glycol having the formula:



wherein x is the degree of ethoxylation and is an average value of at least about 20 moles.

33. (original) The absorbent product as set forth in claim 32 wherein the weight ratio of silicone to dispersing agent is at least about 1:1.

34. (cancelled).

35. (original) The absorbent product as set forth in claim 32 wherein the silicone is selected from the group consisting of dimethicone, dimethoconol, PEG dimethicone, alkyl silicones, phenyl silicones, silicone phospholipids, and combinations thereof.

36. (original) The absorbent product as set forth in claim 32 wherein the humectant is present in an amount of from about 5% (by weight) to about 15% (by weight).

37. (original) The absorbent product as set forth in claim 32 wherein the humectant is selected from the group consisting of N-Acetyl ethanolamine, urocanic acid, aloe vera gel, arginine PCA, chitosan PCA, copper PCA, corn glycerides, dimethyl imidazolidinone, fructose, glucamine, glucose, glucose glutamate, glucuronic acid, glutamic acid, glycereth-7, glycereth-12, glycereth-20, glycereth-26, glycerin, honey, hydrogenated honey, hydrogenated starch hydrolysates, hydrolyzed corn starch, lactamide MEA, lactic acid, lactose lysine PCA,

mannitol, methyl gluceth-10, methyl gluceth-20, PCA, PEG-2 lactamide, PEG-10 propylene glycol, polyamino sugar condensate, potassium PCA, propylene glycol, propylene glycol citrate, polyamino acid, polysaccharide, saccharide hydrolysate, saccharide isomerate, sodium aspartate, sodium lactate, sodium PCA, sorbitol, TEA-lactate, TEA-PCA, Urea, Xylitol, and mixtures thereof.

38. (original) The absorbent product as set forth in claim 32 wherein the humectant is selected from the group consisting of polyols, glycerine, ethoxylated glycerine, polyethylene glycols, hydrogenated starch hydrolysates, propylene glycol, silicone glycol, pyrrolidone carboxylic acid, and mixtures thereof.

39. (original) The absorbent product as set forth in claim 32 wherein the humectant is glycerin.

40. (original) The absorbent product as set forth in claim 32 wherein the immobilizing agent is present in an amount of from about 40% (by weight) to about 70% (by weight).

41. (cancelled).

42. (previously presented) The absorbent product as set forth in claim 32 wherein the polyethylene glycol~~s~~ is selected from the group consisting of PEG 1000, PEG 3350, PEG 6000, PEG 8000, and PEG 10,000.

43. (cancelled).

44. (original) The absorbent product as set forth in claim 32 wherein the compatibilizing agent is selected from the group consisting of propylene glycol, butylene glycol, 1,3 butylene glycol, low molecular weight polyethylene glycols (molecular weights of less than about 720 and liquid at room temperature), methoxyisopropanol, dipropylene glycol propyl ether, dipropylene glycol butyl ether, dipropylene glycol, methyl propanediol, and soluble/dispersible polypropylene glycols, and combinations thereof.

45. (original) The absorbent product as set forth in claim 32 wherein the moisturizing and lubricating composition further comprises a skin barrier enhancing agent in an amount of from about 0.1% (by weight) to about 30% (by weight).

46. (original) The absorbent product as set forth in claim 45 wherein the skin barrier enhancing agent is selected from the group consisting of a fat and an oil.

47. (original) The absorbent product as set forth in claim 45 wherein the skin barrier enhancing agent is selected from the group consisting of apricot kernel oil, avocado oil, babassu oil, borage seed oil, butter, C12-C18 acid triglyceride, camellia oil, canola oil, caprylic/capric/lauric triglyceride, caprylic/capric/linoleic triglyceride, caprylic/capric/stearic

triglyceride, caprylic/capric triglyceride, carrot oil, cashew nut oil, castor oil, cherry pit oil, chia oil, cocoa butter, coconut oil, cod liver oil, corn germ oil, corn oil, cottonseed oil, C₁₀-C₁₈ triglycerides, egg oil, epoxidized soybean oil, evening primrose oil, glyceryl triacetyl hydroxystearate, glyceryl triacetyl ricinoleate, glycosphingolipids, grape seed oil, hazelnut oil, human placental lipids, hybrid safflower oil, hybrid sunflower seed oil, hydrogenated castor oil, hydrogenated castor oil laurate, hydrogenated coconut oil, hydrogenated cottonseed oil, hydrogenated C₁₂-C₁₈ triglycerides, hydrogenated fish oil, hydrogenated lard, hydrogenated menhaden oil, hydrogenated mink oil, hydrogenated orange roughy oil, hydrogenated palm kernel oil, hydrogenated palm oil, hydrogenated peanut oil, hydrogenated shark liver oil, hydrogenated soybean oil, hydrogenated tallow, hydrogenated vegetable oil, lard, lauric/palmitic/oleic triglyceride, lesquerella oil, linseed oil, macadamia nut oil, maleated soybean oil, meadowfoam seed oil, menhaden oil, mink oil, moringa oil, mortierella oil, neatsfoot oil, oleic/linoleic triglyceride, oleic/palmitic/lauric/myristic/linoleic triglyceride, oleostearine, olive husk oil, olive oil, omental lipids, orange roughy oil, palm kernel oil, palm oil, peach kernel oil, peanut oil, pengawar djambi oil, pentadesma butter, phospholipids, pistachio nut oil, placental lipids, rapeseed oil, rice bran oil, safflower oil, sesame oil, shark liver oil, shea butter, soybean oil, sphingolipids, sunflower seed oil, sweet almond oil, tall oil, tallow, tribehenin, tricaprln, tricaprylin, triheptanoin, trihydroxymethoxystearin,

trihydroxystearin, triisononanoïn, triisostearin, trilaurin, trilinolein, trilinolenin, trimyristin, trioctanoïn, triolein, tripalmitin, trisebacin, tristearin, triundecanoïn, vegetable oil, walnut oil, wheat bran lipids, wheat germ oil, zadoary oil, and mixtures thereof.

48. (original) The absorbent product as set forth in claim 45 wherein the moisturizing and lubricating composition further comprises an antioxidant in an amount of from about 0.05% to about 5%.

49. (original) The absorbent product as set forth in claim 48 wherein the antioxidant is selected from the group consisting of natural and synthetic tocopherol, butylated hydroxyanisole (BHA), butylated hydroxytoluene (BHT), carotenoids, filtered wheat germ oil, gamma oryzanol, sodium sulfite, grape seed extract, green tea extract, rosmarinic acid, ubiquinone, lipoic acid, N-acetyl-cysteine, avocado, sage, proanthrocyanidins, and mixtures thereof.

50. (original) The absorbent product as set forth in claim 48 wherein the antioxidant is selected from the group consisting of natural and synthetic tocopherol, butylated hydroxytoluene, gamma oryzanol, and mixtures thereof.

51. (original) The absorbent product as set forth in claim 32 wherein the moisturizing and lubricating composition further

comprises a sterol or sterol derivative in an amount of from about 0.1% (by weight) to about 10% (by weight).

52. (original) The absorbent product as set forth in claim 51 wherein the sterol or sterol derivative is selected from the group consisting of cholesterol sulfate, cholesterol, sitosterol, stigmasterol, ergosterol, C₁₀-C₃₀ cholesterol/lanosterol esters, cholecalciferol, cholesteryl hydroxystearate, cholesteryl isostearate, cholesteryl stearate, 7- dihydrocholesterol, dihydrocholesterol, dihydrocholesteryl octyldecanoate, dihydrolanosterol, dihydrolanosteryl octyldecanoate, ergocalciferol, tall oil sterol, soy sterol acetate, lanasterol, soy sterol, avocado sterols, cholesterol esters, sterol esters, and mixtures thereof.

53. (previously presented) The absorbent product as set forth in claim 32 wherein the moisturizing and lubricating composition further comprises one or more components selected from the group consisting of emulsifiers, surfactants, water, viscosity modifiers, natural moisturizing factors, antiviral actives, pH modifiers, enzyme inhibitors/inactivators, suspending agents, pigments, dyes, colorants, buffers, perfumes, antibacterial actives, antifungal actives, pharmaceutical actives, film formers, deodorants, opacifiers, astringents, solvents, organic acids, preservatives, drugs, vitamins, aloe vera, and panthenol.

54. (original) The absorbent product as set forth in claim 32 wherein the moisturizing and lubricating composition has a melting point of from about 55°C to about 75°C.

55. (original) The absorbent product as set forth in claim 32 wherein the moisturizing and lubricating composition has a penetration hardness of from about 1 millimeter to about 20 millimeters.

56. (original) The absorbent product as set forth in claim 32 further comprising a ceramide.

57. (original) The absorbent product as set forth in claim 56 wherein the ceramide is glucosylceramide.

58. (original) The absorbent product as set forth in claim 32 wherein at least about 90% (by weight) of the components of the moisturizing and lubricating composition form a single phase at a temperature of from about 45°C to about 80°C.

59. (original) The absorbent product as set forth in claim 32 wherein at least about 94% (by weight) of the components of the moisturizing and lubricating composition form a single phase at a temperature of from about 45°C to about 80°C.

60. (original) The absorbent product as set forth in claim 32 wherein at least about 97% (by weight) of the components of

the moisturizing and lubricating composition form a single phase at a temperature of from about 45°C to about 80°C.

61. (original) The absorbent product as set forth in claim 32 wherein the absorbent product is selected from the group consisting of diapers, feminine hygiene pads, pantliners, micro-liners, interlabial pads, thong pads, tampons, adult incontinence garments, training pants and disposable swimming pants.

62. (new) An absorbent product comprising an absorbent substrate and a moisturizing and lubrication composition, said moisturizing and lubricating composition comprising from about 1% (by weight) to about 40% (by weight) of an emollient, from about 1% (by weight) to about 20% (by weight) of a humectant, from about 30% (by weight) to about 90% (by weight) an immobilizing agent, and from about 1% (by weight) to about 40% (by weight) of a compatibilizing agent wherein no more than about 50% (by weight) of the components are liquid at room temperature and no less than about 50% of the components are solid at room temperature, and wherein at least about 85% (by weight) of the components of the moisturizing and lubricating composition form a single phase at a temperature of from about 45°C to about 80°C, wherein the immobilizing agent is a high molecular weight polyethylene glycol selected from the group consisting of PEG 3350, PEG 6000, PEG 8000, and PEG 10,000.

63. (new) The absorbent product as set forth in claim 62 wherein the moisturizing and lubricating composition further comprises a dispersing agent.

64. (new) The absorbent product as set forth in claim 62 wherein the moisturizing and lubricating composition further comprises a skin barrier enhancing agent in an amount of from about 0.1% (by weight) to about 30% (by weight).

65. (new) The absorbent product as set forth in claim 64 wherein the moisturizing and lubricating composition further comprises an antioxidant in an amount of from about 0.05% to about 5%.

66. (new) The absorbent product as set forth in claim 62 wherein the moisturizing and lubricating composition further comprises a sterol or sterol derivative in an amount of from about 0.1% (by weight) to about 10% (by weight).

67. (new) The absorbent product as set forth in claim 62 wherein the moisturizing and lubricating composition further comprises a ceramide.

68. (new) The absorbent product as set forth in claim 62 wherein the moisturizing and lubricating composition further comprises one or more components selected from the group consisting of emulsifiers, surfactants, water, viscosity modifiers, pH modifiers, enzyme inhibitors/inactivators,

suspending agents, pigments, dyes colorants, natural moisturizing factors, buffers, perfumes, antibacterial actives, antifungal actives, antiviral actives, pharmaceutical actives, film formers, deodorants, opacifiers, astringents, solvents, organic acids, preservatives, drugs, vitamins, aloe vera, and panthenol.

69. (new) The absorbent product as set forth in claim 62 wherein the absorbent product is selected from the group consisting of diapers, feminine hygiene pads, pantliners, micro-liners, interlabial pads, thong pads, tampons, adult incontinence garments, training pants and disposable swimming pants.